

Amendments to the Specification:

Please replace the paragraph beginning at page 7, line 12 with the following rewritten paragraph:

The multiplexer 615 selects m_1 , m_2 , respectively, depending on the output of comparator 610. The resulting output of the multiplier 614 is again the desired maximum saturation value S_{\max} :

$$S_{\max} = (Y' - Y_{\min})m_1, \text{ if } Y' \leq Y_t$$

$$S_{\max} = ([Y_{\max}]Y_{\max} - Y')m_2, \text{ if } Y' > Y_t$$